

323 GX

HYDRAULIC EXCAVATOR



Net Power – ISO 9249
Operating Weight
Maximum Digging Depth

123.7 kW (166 hp)
21 700 kg (47,800 lb)
6710 mm (22 ft)



323 GX

HYDRAULIC EXCAVATOR

Introducing the 323 GX – our economy model with all the reliability and ease of operation you expect from a Cat® excavator, with easy maintenance and lower cost features designed to give you a faster return on your equipment investment.



EASY TO OPERATE AND MAINTAIN

Stable and responsive design built on classic, proven components for easy operation and excellent reliability.

FAST PAYBACK

Low owning costs, maintenance costs, and fuel consumption means more money in your pocket.

LOW FUEL CONSUMPTION

Smart mode and synchronized engine and electrohydraulic control give you competitive performance with low fuel consumption.

LATEST FEATURES



Cab Monitor Improvements

- Continuously improved user interface allows for intuitive navigation, minimizing performance interruption with the easy-to-use touchscreen menu.
- Smaller app tiles to view more apps in one screen.
- When navigating the menu, scroll position will be remembered.
- While menu is shown and lever is moved, camera view will be shown.
- Use the in-monitor QR code to learn about machine and technology features through a full suite of “how-to” videos.

*Not all features are available in all regions. Please check with your local Cat® dealer for specific offering availability in your area.
Build Number: 05F*

EASY TO OPERATE



- The machine's electrohydraulic system allows accurate bucket control for maximum precision.
- Start the engine with a push button.
- Navigate quickly on the high-resolution 203 mm (8 in) touchscreen monitor.
- Continuously improved user interface allows for intuitive navigation, minimizing performance interruption with the easy-to-use touchscreen menu.
- Use the in-monitor QR code to learn about machine and technology features through a full suite of "how-to" videos.
- Control the excavator comfortably with easy-to-reach controls all located in front of you.
- Program your preferences for power mode, joystick pattern, and joystick response using Operator ID. The excavator will automatically remember your selections.



EASY TO MAINTAIN

- Daily maintenance at ground level, longer filter lifespan, and extended and synchronized service intervals help reduce maintenance costs.
- The electrohydraulic system eliminates the need for pilot lines and filter.
- The air intake filter with pre-cleaner has double the dust holding capacity of the previous air intake filter.
- Fuel filters are synchronized to be changed at 1,000 hours – keeping your machine on the job for longer periods of time.
- The hydraulic oil filter provides high filtration performance, anti-drain valves to keep oil clean when the filter is replaced, and longer life with a 3,000 hour replacement interval.
- Grease sealed between track pins and bushings reduces travel noise and prevents debris from entering to help increase undercarriage life.
- Auto warm up speeds up hydraulic oil warming in cold temperatures and helps prolong the life of components.
- Advansys™ bucket tips increase penetration and improve cycle times. Tip changes can be done quickly with a simple lug wrench instead of a hammer or special tool, improving safety and uptime.
- Scheduled Oil Sampling (S-O-SSM) ports are on ground level, simplifying maintenance and allowing for quick, easy extraction of fluid samples for analysis.



LOW OWNING AND OPERATING COSTS



- The excavator uses less fuel than the 320D2 L in similar applications.
- Match the excavator to the job with a choice of two modes: Power and Smart. Power mode provides full-time maximum output. Smart mode automatically matches engine and hydraulic power to digging conditions to help conserve fuel without impacting production.
- VisionLink® provides actionable data insights for all assets – regardless of fleet size or equipment manufacturer.* Review equipment data from your desktop or mobile device to maximize uptime and optimize assets. Dashboards provide information such as hours, miles, location, idle time, and fuel utilization. Make informed decisions that lower costs, simplify maintenance, and improve safety and security on your jobsite.
- VisionLink® Productivity gathers and summarizes machine telematics and jobsite data from all your equipment – regardless of the manufacturer.* View actionable information such as idle time, fuel burn, location, payload, load counts, total cycles, and more to improve machine efficiency, productivity, and utilization. Access data anywhere via a mobile, tablet, or desktop device – on or off the jobsite.
- Save fuel with Automatic Engine Control (AEC). It reduces engine speed when the machine is not under load to minimize fuel consumption.

**Data field availability can vary by equipment manufacturer.*



RELIABLE PERFORMANCE

- A versatile machine that performs well in bucket and hammer applications.
- Booms and sticks are robotically welded and checked ultrasonically to ensure maximum durability.
- Reliable and durable and built on classic, proven components.
- The Cat C4.4 engine and electrohydraulic system work in sync to help you move plenty of material while using less fuel.
- Fast cycle times give you excellent productivity.
- A hammer-ready valve is standard for added versatility.
- Two levels of fuel filtration protect the engine from contaminated diesel fuel.
- Cat undercarriage is built strong to absorb jobsite stresses for enhanced performance and durability.
- General duty buckets are designed for fast material discharge and cleaning.
- Work up to 4500 m (14,760 ft) above sea level with engine power derate above 3000 m (9,840 ft).
- Standard high-ambient temperature capability is 52° C (125° F) with cold start capability at -25° C (-13° F).



WORK IN COMFORT



- The cab has a wide seat that adjusts to suit individual operator preferences.
- Standard automatic climate control helps keep you comfortable all shift long.
- Excellent work site visibility from the cab enhances productivity and safety.
- Optimized low-effort joystick controls reduce operator fatigue.
- Convenience features include a radio, auxiliary port for headphones, and a USB port for connecting and charging devices; a 24V DC outlet makes phone charging even faster.
- Use the radio's Bluetooth® technology to make hands-free calls.
- The cup holder and storage space in front of the controls can hold large cups and wide cell phones; storage behind the seat can hold a large lunchbox and other items.

ENHANCED SAFETY

- Access daily maintenance points from ground level with the exception of the engine oil level – no need to climb on top of the excavator to check filters or grease linkage.
- Enjoy great visibility into the trench, in each swing direction, and behind you with the help of smaller cab posts and larger windows.
- An optional rearview camera enhances visibility.
- Anti-skid plating on the service platform helps prevent slipping.
- The handrails meet ISO 2867:2011 requirements for added safety.
- Keep your excavator secure with Operator ID. Use your PIN code on the monitor to enable the push button starting feature.
- Enhance jobsite safety. Add a swing alarm to alert people when you're rotating from trench to stockpile and back again.
- An optional ISO certified Rollover Protective Structure (ROPS) cab is offered in some regions to help protect the operator in the event of a rollover.



SUSTAINABILITY



- The Cat® C4.4 engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels** up to: 20% biodiesel FAME (fatty acid methyl ester)* or 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels. Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details.
- Auto Engine Speed Control helps reduce unnecessary fuel burn and greenhouse gas emissions by allowing the engine to automatically go into idle mode when the machine is not working.
- When engaged, one-touch idle helps operators conserve fuel and reduce greenhouse gas emissions by lowering engine speed when the machine is under no load and return to normal operating speed when desired.
- Engine Idle Shutdown Timer reduces fuel burn, greenhouse gas emissions and unnecessary idle time by shutting down the machine after a pre-set idling period.
- VisionLink® displays the CO₂ emissions for monitored assets, calculated by fuel type for the Runtime Fuel Burned each day in a selected date range.
- Don't waste fuel idling. Cat VisionLink® online fleet monitoring helps you manage idle time and reduce fuel burn and greenhouse gas emissions.
- Extended maintenance intervals not only reduce downtime but decrease the amount of fluid and filters that are replaced over the life of the machine.
- Cat Scheduled Oil Sampling (S-O-SSM) Services helps reveal excessive wear, contaminated fluids or other “unseen” issues that can shorten component life. In many cases, you can extend oil and coolant change intervals by using fluid monitoring. Consult your Cat dealer or the machine's operation and maintenance manual for more information.
- A well-trained operator is worth the investment. Skilled operators benefit your bottom line by maximizing productivity, avoiding costly downtime, and maintaining jobsite safety – which can help to improve fuel efficiency and reduce greenhouse gas emissions.

**Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).*

***Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.*

INCREASE YOUR PRODUCTIVITY AND PROFIT

WITH CAT ATTACHMENTS

You can easily expand the performance of your 323 GX by utilizing a variety of Cat attachments. Each Cat attachment is designed to fit the weight and horsepower of the Cat excavator for improved performance, safety, and stability.

BUCKETS



HYDRAULIC HAMMERS



VIBRATORY PLATES



PREVENT HAMMER WEAR AND TEAR

Protect your hammer tool from overheating and rapid wear. Auto hammer stop warns you after 15 seconds of continuous firing and then automatically shuts it off after 30 seconds – all to extend the tool's service life.

MORE THAN MACHINES

BUILT AROUND YOUR SUCCESS

When you buy Cat equipment, you get so much more than the machine. You also get the support of a world-class dealer network, backed by a range of flexible solutions, technology, tools, and more.



CUSTOMER VALUE AGREEMENTS

A Customer Value Agreement (CVA) from your Cat dealer helps you do more and worry less. A CVA simplifies machine ownership and maintenance, adds the security of expert dealer support, and gives you the peace of mind from effective equipment health management.

GENUINE CAT PARTS

Genuine Cat parts deliver the highest level of reliability and productivity. Order direct from your Cat dealer or shop online at parts.cat.com.

REPAIR OPTIONS

A broad range of repair options give you choices that work with your needs, budget, and timeline. Every repair is performed by expert Cat technicians. You'll receive smart repair advice, a timely, accurate quote, and service that gets your machine back into action quickly.

FINANCIAL SERVICES

Count on Cat Financial to provide the best finance and extended protection solutions for your business. For more than 30 years, we have helped our customers succeed through financial service excellence.



DOZERS



SKID STEERS



MATERIAL HANDLERS



EXCAVATORS



WHEEL LOADERS



TRACK LOADERS

TECHNICAL SPECIFICATIONS

Engine

Net Power - ISO 9249	105.7 kW	142 hp
Net Power - ISO 9249 (DIN)	144 hp (metric)	
Engine Model	Cat C4.4	
Engine Power - ISO 14396	105.7 kW	142 hp
Engine Power - ISO 14396 (DIN)	150 hp (metric)	
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.4 L	269 in ³
Biodiesel Capability	Up to B20 ¹	
Emissions	Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.	

Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system and alternator with engine speed at 2,200 rpm. Advertised power is tested per the specified standard in effect at the time of manufacture.

¹Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels** up to: 20% biodiesel FAME (fatty acid methyl ester)* or 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels. Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

*Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).

**Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

Hydraulic System

Main System - Maximum Flow - Implement	429 L/min	113.4 gal/min
Maximum Pressure - Equipment	35 000 kPa	5,075 psi
Maximum Pressure - Travel	35 000 kPa	5,075 psi
Maximum Pressure - Swing	27 500 kPa	3,988 psi

Swing Mechanism

Swing Speed	11.2 r/min	
Maximum Swing Torque	82 kN-m	60,333 lbf-ft

Weights

Operating Weight	21 700 kg	47,800 lb
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Reach boom, R2.9B1 (9'6") stick, General Duty (GD) 1.19 m³ (1.56 yd³) bucket, 600 mm (24") triple grouser shoes and 4250 kg (9,370 lb) counterweight.

Service Refill Capacities

Fuel Tank Capacity	390 L	103 gal
Cooling System	24.5 L	6.5 gal
Engine Oil	15 L	4 gal
Swing Drive	5.5 L	1.5 gal
Final Drive - Each	4.5 L	1.2 gal
Hydraulic System – Including Tank	218 L	57.6 gal
Hydraulic Tank	115 L	30.4 gal
Diesel Exhaust Fluid (DEF) Tank	26 L	6.9 gal

Dimensions

Boom	Reach 5.7 m (18'8")	
Stick	Reach 2.9 m (9'6")	
Bucket	GD 1.19 m ³ (1.56 yd ³)	
Shipping Height - Top of Cab	2980 mm	9.8 ft
Handrail Height	3030 mm	9.9 ft
Shipping Length	9520 mm	31.2 ft
Tail Swing Radius	2830 mm	9.3 ft
Counterweight Clearance	1060 mm	3.5 ft
Ground Clearance	460 mm	1.5 ft
Track Length	4250 mm	13.9 ft
Track Length to Center of Rollers	3450 mm	11.3 ft
Track Gauge	2380 mm	7.8 ft
Transport Width	2980 mm	9.8 ft

Working Ranges & Forces

Boom	Reach 5.7 m (18'8")	
Stick	Reach 2.9 m (9'6")	
Bucket	GD 1.19 m ³ (1.56 yd ³)	
Maximum Digging Depth	6710 mm	22 ft
Maximum Reach at Ground Level	9860 mm	32.3 ft
Maximum Cutting Height	9470 mm	31 ft
Maximum Loading Height	6500 mm	21.3 ft
Minimum Loading Height	2180 mm	7.2 ft
Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	6490 mm	21.3 ft
Maximum Vertical Wall Digging Depth	5770 mm	18.9 ft
Bucket Digging Force - ISO	141 kN	31,698 lbf-ft
Stick Digging Force - ISO	107 kN	23,942 lbf-ft

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.85 kg (1.9 lb) of refrigerant which has a CO₂ equivalent of 1.216 metric tonnes (1.340 tons).

STANDARD & OPTIONAL EQUIPMENT

NOTE: Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
UNDERCARRIAGE AND STRUCTURES			BOOM AND STICK		
Medium undercarriage	✓		5.7 m (18'8") Reach boom	✓	
Grease lubricated track link	✓		2.9 m (9'6") Reach stick	✓	
4250 kg (9,370 lb) counterweight	✓		ELECTRICAL SYSTEM		
Tie-down points	✓		Two 950 CCA maintenance-free batteries	✓	
600 mm (24") triple grouser track shoes		✓	Electrical disconnect switch	✓	
790 mm (31") triple grouser track shoes		✓	LED chassis and cab lights	✓	
CAT TECHNOLOGY			LED left-side boom light	✓	
VisionLink®	✓		LED right-side boom light		✓
Capability to Remote Flash Cat Product Link™ (telematics only)	✓		SERVICE AND MAINTENANCE		
VisionLink Productivity		✓	Grouped location of filters	✓	
CAB			S-O-S ports	✓	
Sound suppressed with viscous mounts	✓		Radiator screen		✓
High-resolution 203 mm (8") LCD touch screen monitor	✓		HYDRAULIC SYSTEM		
Mechanically adjustable seat with headrest and armrest	✓		Electronic main control valve, hammer ready	✓	
51 mm (2") orange seat belt	✓		Back-to-back electronic pump	✓	
Automatic bi-level air conditioner	✓		Boom and stick regeneration circuits	✓	
Keyless push-to-start engine control	✓		Automatic hydraulic oil warm up	✓	
Fixed left-side console	✓		Automatic two-speed travel	✓	
1 button joysticks	✓		High performance hydraulic return filter	✓	
Bluetooth radio with USB/Auxiliary ports	✓		Hammer lines		✓
24V DC outlet	✓		Hammer return filter		✓
Cup holder and storage compartments	✓		SAFETY AND SECURITY		
Rear window emergency exit	✓		Anti-skid plating with countersunk bolts	✓	
70/30 tempered glass windshield	✓		Handrail and handhold	✓	
Upper radial wiper with washer	✓		Lockable external tool/storage box	✓	
Openable steel hatch	✓		Ground-level secondary engine shutoff switch	✓	
LED Dome light	✓		Lockable disconnect switch	✓	
Washable floor mat	✓		Signaling/warning horn	✓	
3 button joysticks		✓	Right-hand-side mirror	✓	
ENGINE			Travel alarm	✓	
Cat C4.4 twin turbo diesel engine	✓		Rollover Protective Structure (ROPS)		✓
Two selectable modes: Power, Smart	✓		Rearview camera		✓
Up to 4500 m (14,760 ft) altitude capability	✓		Swing alarm		✓
52° C (125° F) high-ambient cooling capacity	✓				
-25° C (-13° F) cold start capability	✓				
Electric fuel priming pump	✓				
Two-stage fuel filtration system	✓				
Sealed double element air filter with integrated pre-cleaner	✓				

For more complete information on Cat products, dealer services and industry solutions, visit us on the web at www.cat.com.

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